

# Andrea Rapisarda

## List of Publications by Year in descending order

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136  
papers

4,446  
citations

147801

31  
h-index

118850

62  
g-index

141  
all docs

141  
docs citations

141  
times ranked

2635  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the role of chance in fencing tournaments: An agent-based approach. PLoS ONE, 2022, 17, e0267541.	2.5	2
2	Numerical and Experimental Analysis of Labyrinth Seals with Rhomboidal Cells. Applied Sciences (Switzerland), 2021, 11, 1371.	2.5	1
3	Why lot? How sortition could help representative democracy. Physica A: Statistical Mechanics and Its Applications, 2021, 565, 125430.	2.6	2
4	A novel methodology for epidemic risk assessment of COVID-19 outbreak. Scientific Reports, 2021, 11, 5304.	3.3	50
5	Taxi vs. demand responsive shared transport systems: An agent-based simulation approach. Transport Policy, 2021, 103, 116-126.	6.6	19
6	Detection of Fake News on COVID-19 on Web Search Engines. Frontiers in Physics, 2021, 9, .	2.1	17
7	Inequalities, chance and success in sport competitions: Simulations vs empirical data. Physica A: Statistical Mechanics and Its Applications, 2020, 557, 124899.	2.6	7
8	THE ORIGINS OF EXTREME WEALTH INEQUALITY IN THE TALENT VERSUS LUCK MODEL. International Journal of Modeling, Simulation, and Scientific Computing, 2020, 23, 2050004.	1.4	6
9	Acoustic emissions in compression of building materials: q-statistics enables the anticipation of the breakdown point. European Physical Journal: Special Topics, 2020, 229, 841-849.	2.6	12
10	A generalised model for asymptotically-scale-free geographical networks. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 043404.	2.3	13
11	Nonextensive statistical mechanics, superstatistics and beyond: theory and applications in astrophysical and other complex systems. European Physical Journal: Special Topics, 2020, 229, 707-709.	2.6	3
12	A New Agent-Based Methodology for the Seismic Vulnerability Assessment of Urban Areas. ISPRS International Journal of Geo-Information, 2019, 8, 274.	2.9	6
13	Exploring the role of interdisciplinarity in physics: Success, talent and luck. PLoS ONE, 2019, 14, e0218793.	2.5	20
14	Quantum statistics in Network Geometry with Fractional Flavor. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 103403.	2.3	6
15	Nonadditive Entropies and Complex Systems. Entropy, 2019, 21, 538.	2.2	3
16	Multi-agent simulation for planning and designing new shared mobility services. Research in Transportation Economics, 2019, 73, 34-44.	4.1	46
17	Exploring the Role of Talent and Luck in Getting Success. Acta Physica Polonica B, Proceedings Supplement, 2019, 12, 17.	0.1	1
18	Modeling surveys effects in political competitions. Physica A: Statistical Mechanics and Its Applications, 2018, 503, 714-726.	2.6	3

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19	Testing Demand Responsive Shared Transport Services via Agent-Based Simulations. AIRO Springer Series, 2018, , 313-320.	0.6	5
20	TALENT VERSUS LUCK: THE ROLE OF RANDOMNESS IN SUCCESS AND FAILURE. International Journal of Modeling, Simulation, and Scientific Computing, 2018, 21, 1850014.	1.4	60
21	Informative Contagion Dynamics in a Multilayer Network Model of Financial Markets. Italian Economic Journal, 2017, 3, 343-366.	1.8	15
22	A multilayer approach for price dynamics in financial markets. European Physical Journal: Special Topics, 2017, 226, 477-488.	2.6	5
23	Finding shared decisions in stakeholder networks: An agent-based approach. Physica A: Statistical Mechanics and Its Applications, 2017, 466, 277-287.	2.6	23
24	Order book, financial markets, and self-organized criticality. Chaos, Solitons and Fractals, 2016, 88, 196-208.	5.1	14
25	Modelling stakeholder participation in transport planning. Case Studies on Transport Policy, 2016, 4, 230-238.	2.5	47
26	Cosmic Background Radiation and æther-drift experiments. Europhysics Letters, 2016, 113, 19001.	2.0	6
27	Perfect Information vs Random Investigation: Safety Guidelines for a Consumer in the Jungle of Product Differentiation. PLoS ONE, 2016, 11, e0146389.	2.5	1
28	A multilayer model of order book dynamics. Journal of Network Theory in Finance, 2016, 2, 37-52.	0.7	1
29	Modeling financial markets by self-organized criticality. Physical Review E, 2015, 92, 042814.	2.1	30
30	Numerical Analysis of Honeycomb Labyrinth Seals: Cell Geometry and Fin Tip Thickness Impact on the Discharge Coefficient. , 2015, , .		5
31	Simulating Opinion Dynamics on Stakeholders'™ Networks through Agent-based Modeling for Collective Transport Decisions. Procedia Computer Science, 2015, 52, 884-889.	2.0	20
32	Micro and macro benefits of random investments in financial markets. Contemporary Physics, 2014, 55, 318-334.	1.8	20
33	The vacuum as a form of turbulent fluid: Motivations, experiments, implications. Physica A: Statistical Mechanics and Its Applications, 2014, 394, 61-73.	2.6	8
34	Selective altruism in collective games. Physica A: Statistical Mechanics and Its Applications, 2014, 410, 496-512.	2.6	2
35	Agent-Based Simulation of Pedestrian Behaviour in Closed Spaces: A Museum Case Study. Jasss, 2014, 17, .	1.8	32
36	The Beneficial Role of Random Strategies in Social and Financial Systems. Journal of Statistical Physics, 2013, 151, 607-622.	1.2	30

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37	Reducing financial avalanches by random investments. Physical Review E, 2013, 88, 062814.	2.1	33
38	Noise, synchrony, and correlations at the edge of chaos. Physical Review E, 2013, 87, 022910.	2.1	22
39	Are Random Trading Strategies More Successful than Technical Ones?. PLoS ONE, 2013, 8, e68344.	2.5	52
40	Return Migration After Brain Drain: A Simulation Approach. Jasss, 2013, 16, .	1.8	12
41	Prompt electrons driving ion acceleration and formation of a two-temperature plasma in nanosecond laser-ablation domain. Europhysics Letters, 2012, 100, 45003.	2.0	21
42	Efficient promotion strategies in hierarchical organizations. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 3496-3511.	2.6	26
43	Accidental politicians: How randomly selected legislators can improve parliament efficiency. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 3944-3954.	2.6	34
44	Basic randomness of nature and ether-drift experiments. Chaos, Solitons and Fractals, 2011, 44, 1089-1099.	5.1	8
45	The Peter principle revisited: A computational study. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 467-472.	2.6	62
46	The impact of real time information on transport network routing through intelligent agent-based simulation. , 2009, , .		14
47	Multi agent simulation of pedestrian behavior in closed spatial environments. , 2009, , .		15
48	Phase transitions and chaos in long-range models of coupled oscillators. Europhysics Letters, 2009, 85, 10007.	2.0	19
49	Central limit behavior in the Kuramoto model at the "edge of chaos" Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4818-4826.	2.6	39
50	Comment on "Ergodicity and central-limit theorem in systems with long-range interactions" by Figueiredo A. et al.. Europhysics Letters, 2009, 85, 60006.	2.0	8
51	A closer look at the indications of q-generalized Central Limit Theorem behavior in quasi-stationary states of the HMF model. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 3121-3128.	2.6	46
52	Communities recognition in the Chesapeake Bay ecosystem by dynamical clustering algorithms based on different oscillators systems. European Physical Journal B, 2008, 65, 395-402.	1.5	5
53	Nonergodicity and central-limit behavior for long-range Hamiltonians. Europhysics Letters, 2007, 80, 26002.	2.0	79
54	On multivariate generalizations of the q-central limit theorem consistent with nonextensive statistical mechanics. AIP Conference Proceedings, 2007, , .	0.4	34

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55	Nonextensive statistical mechanics and central limit theorems – Convolution of independent random variables and q-product. AIP Conference Proceedings, 2007, , .	0.4	18
56	Nonextensive statistical mechanics and central limit theorems – Convolution of q-independent random variables. AIP Conference Proceedings, 2007, , .	0.4	13
57	Analysis of self-organized criticality in the Olami-Feder-Christensen model and in real earthquakes. Physical Review E, 2007, 75, 055101.	2.1	124
58	Detecting complex network modularity by dynamical clustering. Physical Review E, 2007, 75, 045102.	2.1	194
59	Self-Organized Criticality and earthquakes. AIP Conference Proceedings, 2007, , .	0.4	2
60	Modules identification by a Dynamical Clustering algorithm based on chaotic Rössler oscillators. AIP Conference Proceedings, 2007, , .	0.4	3
61	Anomalous diffusion and quasistationarity in the HMF model. AIP Conference Proceedings, 2007, , .	0.4	3
62	Remarks on the Condorcet's paradox. AIP Conference Proceedings, 2007, , .	0.4	2
63	On the non-Boltzmannian nature of quasi-stationary states in long-range interacting systems. Physica A: Statistical Mechanics and Its Applications, 2007, 381, 143-147.	2.6	20
64	Nonergodicity and central limit behavior for systems with long-range interactions. Proceedings of SPIE, 2007, , .	0.8	1
65	Effective spin-glass Hamiltonian for the anomalous dynamics of the HMF model. Physica A: Statistical Mechanics and Its Applications, 2006, 370, 573-584.	2.6	7
66	Opinion dynamics and synchronization in a network of scientific collaborations. Physica A: Statistical Mechanics and Its Applications, 2006, 372, 316-325.	2.6	48
67	Metastability in the Hamiltonian mean field model and Kuramoto model. Physica A: Statistical Mechanics and Its Applications, 2006, 365, 184-189.	2.6	22
68	Olami-Feder-Christensen model on different networks. European Physical Journal B, 2006, 50, 243-247.	1.5	27
69	Compromise and synchronization in opinion dynamics. European Physical Journal B, 2006, 50, 169-176.	1.5	75
70	Glassy Dynamics and Nonextensive Effects in the HMF Model: The Importance of Initial Conditions. Progress of Theoretical Physics Supplement, 2006, 162, 18-28.	0.1	7
71	MULTIFRACTAL ANALYSIS OF MOUNT St. HELENS SEISMICITY AS A TOOL FOR IDENTIFYING ERUPTIVE ACTIVITY. Fractals, 2006, 14, 179-186.	3.7	11
72	APPLICATION OF SUPERSTATISTICS TO ATMOSPHERIC TURBULENCE. , 2005, , .		5

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73	A Monte Carlo investigation of the Hamiltonian mean field model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 349, 143-154.	2.6	5
74	Nonextensive thermodynamics and glassy behaviour. <i>Europhysics News</i> , 2005, 36, 202-206.	0.3	40
75	CHANGING OPINIONS IN A CHANGING WORLD: A NEW PERSPECTIVE IN SOCIOPHYSICS. <i>International Journal of Modern Physics C</i> , 2005, 16, 515-531.	1.7	99
76	VECTOR OPINION DYNAMICS IN A BOUNDED CONFIDENCE CONSENSUS MODEL. <i>International Journal of Modern Physics C</i> , 2005, 16, 1535-1551.	1.7	143
77	METASTABILITY AND ANOMALOUS BEHAVIOR IN THE HMF MODEL: CONNECTIONS TO NONEXTENSIVE THERMODYNAMICS AND GLASSY DYNAMICS. , 2005, , .		3
78	THE OLAMI-FEDER-CHRISTENSEN MODEL ON A SMALL-WORLD TOPOLOGY. , 2005, , .		5
79	Comment on "Power-Law Time Distribution of Large Earthquakes". <i>Physical Review Letters</i> , 2004, 92, 129801; author reply 129802.	7.8	17
80	Megaet al.Reply:. <i>Physical Review Letters</i> , 2004, 92, .	7.8	5
81	Environmental Atmospheric Turbulence at Florence Airport. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	18
82	Metastable states, anomalous distributions and correlations in the HMF model. <i>Physica D: Nonlinear Phenomena</i> , 2004, 193, 315-328.	2.8	43
83	Dynamics and thermodynamics of a model with long-range interactions. <i>Continuum Mechanics and Thermodynamics</i> , 2004, 16, 245-255.	2.2	26
84	Detection of invisible and crucial events: from seismic fluctuations to the war against terrorism. <i>Chaos, Solitons and Fractals</i> , 2004, 20, 77-85.	5.1	3
85	Dynamical anomalies and the role of initial conditions in the HMF model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 338, 60-67.	2.6	17
86	Non-Poisson distribution of the time distances between two consecutive clusters of earthquakes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 338, 201-205.	2.6	4
87	Glassy dynamics in the HMF model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 340, 187-195.	2.6	23
88	Error and attack tolerance of complex networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 340, 388-394.	2.6	382
89	Glassy phase in the Hamiltonian mean-field model. <i>Physical Review E</i> , 2004, 69, 056113.	2.1	30
90	Efficiency of scale-free networks: error and attack tolerance. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 320, 622-642.	2.6	379

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91	Power-Law Time Distribution of Large Earthquakes. <i>Physical Review Letters</i> , 2003, 90, 188501.	7.8	125
92	COMPLEX SYSTEMS: ANALYSIS AND MODELS OF REAL-WORLD NETWORKS. , 2003, , .		5
93	Revisiting disorder and Tsallis statistics. <i>Science</i> , 2003, 300, 249-51.	12.6	4
94	Dynamical quasi-stationary states in a system with long-range forces. <i>Chaos, Solitons and Fractals</i> , 2002, 13, 401-406.	5.1	13
95	Time evolution of thermodynamic entropy for conservative and dissipative chaotic maps. <i>Chaos, Solitons and Fractals</i> , 2002, 13, 471-478.	5.1	23
96	Fingerprints of nonextensive thermodynamics in a long-range Hamiltonian system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 305, 129-136.	2.6	94
97	The Hamiltonian Mean Field Model: From Dynamics to Statistical Mechanics and Back. <i>Lecture Notes in Physics</i> , 2002, , 458-487.	0.7	28
98	Nonextensivity: From Low-Dimensional Maps to Hamiltonian Systems. <i>Lecture Notes in Physics</i> , 2002, , 140-162.	0.7	14
99	Physics with the Chimera detector at LNS in Catania: the REVERSE experiment. <i>Nuclear Physics A</i> , 2001, 681, 331-338.	1.5	50
100	Microscopic dynamics of a phase transition: equilibrium vs out-of-equilibrium regime. <i>Nuclear Physics A</i> , 2001, 681, 406-413.	1.5	10
101	Non-Gaussian equilibrium in a long-range Hamiltonian system. <i>Physical Review E</i> , 2001, 64, 056134.	2.1	286
102	The rate of entropy increase at the edge of chaos. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 273, 97-103.	2.1	121
103	Chaotic dynamics and superdiffusion in a Hamiltonian system with many degrees of freedom. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 280, 81-86.	2.6	31
104	Chaos in the Thermodynamic Limit. <i>Progress of Theoretical Physics Supplement</i> , 2000, 139, 204-213.	0.1	14
105	Superdiffusion and Out-of-Equilibrium Chaotic Dynamics with Many Degrees of Freedoms. <i>Physical Review Letters</i> , 1999, 83, 2104-2107.	7.8	160
106	Chaos and statistical mechanics in the Hamiltonian mean field model. <i>Physica D: Nonlinear Phenomena</i> , 1999, 131, 38-54.	2.8	61
107	A fractal approach to the temporal distribution of microseismicity at the low eastern flank of Mt. Etna during 1989â€”1994. <i>Physics of the Earth and Planetary Interiors</i> , 1998, 109, 115-127.	1.9	11
108	Lyapunov Instability and Finite Size Effects in a System with Long-Range Forces. <i>Physical Review Letters</i> , 1998, 80, 692-695.	7.8	154

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109	Generalized entropy and temperature in nuclear multifragmentation. <i>Physical Review C</i> , 1998, 58, 2238-2248.	2.9	4
110	One-body dissipation and chaotic dynamics in a classical simulation of a nuclear gas. <i>Physical Review C</i> , 1998, 58, 2821-2830.	2.9	12
111	New universal aspects of diffusion in strongly chaotic systems. <i>Journal of Physics A</i> , 1997, 30, L803-L813.	1.6	24
112	Chaos vs linear instability in the Vlasov equation: A fractal analysis characterization. <i>Physical Review C</i> , 1996, 53, 2556-2559.	2.9	10
113	Beyond linear response theory in multifragmentation. <i>Nuclear Physics A</i> , 1995, 583, 343-346.	1.5	4
114	Chimera: a project of a 4π detector for heavy ion reactions studies at intermediate energy. <i>Nuclear Physics A</i> , 1995, 583, 461-464.	1.5	61
115	Chaoticity in vibrating nuclear billiards. <i>Physical Review C</i> , 1995, 52, 2475-2479.	2.9	17
116	Dynamics of fragment formation in the nuclear spinodal region. <i>Physical Review C</i> , 1995, 51, 198-211.	2.9	24
117	Universal Behavior of Lyapunov Exponents in Unstable Systems. <i>Physical Review Letters</i> , 1995, 75, 3434-3437.	7.8	46
118	Deterministic chaos in heavy-ion reactions. , 1995, , 251-262.		0
119	Non-linear mean field dynamics in the nuclear spinodal zone. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 321, 307-311.	4.1	21
120	Sub-barrier transfer reactions of $^{32}\text{S} + ^{64}\text{Ni}$ . <i>Nuclear Physics A</i> , 1993, 559, 443-460.	1.5	17
121	Transfer reactions below the Coulomb barrier. <i>Nuclear Physics A</i> , 1993, 553, 731-734.	1.5	0
122	Revealing intermittency in nuclear multifragmentation with 4π detectors. <i>Physical Review C</i> , 1993, 48, 2520-2523.	2.9	3
123	Chaotic scattering in heavy-ion reactions. <i>Chaos</i> , 1993, 3, 691-706.	2.5	20
124	Chaotic scattering in heavy-ion collisions. <i>AIP Conference Proceedings</i> , 1992, , .	0.4	0
125	Fluctuating excitation functions in heavy-ion collisions as evidence of "quantum chaos". <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 284, 205-209.	4.1	3
126	Quantum analog of classical chaos in heavy-ion collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 279, 10-15.	4.1	4



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127	Chaos in heavy-ion dynamics at low energy. Nuclear Physics A, 1992, 545, 467-478.	1.5	10
128	Coexistence of regular and chaotic scattering in heavy-ion collisions. Physical Review Letters, 1991, 66, 2581-2584.	7.8	27
129	Transfer energy loss probability distributions in heavy ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 241, 308-312.	4.1	2
130	Angular momentum transfer and energy loss in the $^{32}\text{S} + ^{60,64}\text{Ni}$ peripheral reactions at 160.5 MeV. Nuclear Physics A, 1990, 515, 525-540.	1.5	3
131	Theory of transfer reactions in peripheral heavy-ion collisions. Physical Review C, 1990, 41, 995-998.	2.9	1
132	Transition from quasielastic to damped processes in the $^{32}\text{Ni}$ reaction. Physical Review C, 1989, 39, 2462-2464.	2.9	3
133	Microscopic theory of multiparticle transfer and of fusion in the reaction $^{40}\text{Ca} + ^{40}\text{Ca}$ . Nuclear Physics A, 1988, 490, 471-484.	1.5	11
134	Transfer and inelastic channels around the Coulomb barrier. , 1988, , 149-154.		0
135	Multiparticle transfer and frictional forces in heavy ion collisions. Nuclear Physics A, 1987, 472, 333-357.	1.5	14
136	Investigating Fake and Reliable News Sources Using Complex Networks Analysis. Frontiers in Physics, 0, 10, .	2.1	3